

**PACIFIC GAS AND ELECTRIC COMPANY  
CPUC  
EPSS Monthly Outages Report**

**Original Request Date: October 25, 2021**

**Response Date: December 15, 2022**

**Ongoing Transparency and Accountability Reporting**

Beginning November 8, 2021, PG&E must provide monthly reports to the Director of the Commission's Safety Enforcement Division and serve them on the service lists for the Wildfire Mitigation Plan (R.18-10-007) and PG&E Safety Culture (I.15-08-019) proceedings. The reports shall include at a minimum the information listed below and the cadence and content of the reports may be augmented at any time at the discretion of the Safety Enforcement Division.

For every Fast Trip outage on a circuit:

- Total scope of customers impacted, include specifics for
  - Number of medical baseline customers impacted
  - Number of customers who rely on electricity to maintain necessary life functions impacted
  - Number of well water customers impacted
  - Number of schools impacted
  - Number of hospitals impacted
- Duration
- Cause of outage, if known
- Efforts undertaken to clear lines and restore power within 60 minutes
- The total number of times that a circuit has experienced a Fast Trip event
- Trends of scope and duration of outages on repeatedly impacted circuits

## PG&E Response

Attached is PG&E's Enhanced Powerline Safety Settings (EPSS) Outages Monthly Report.<sup>1</sup> The Monthly Report includes:

- Total number of times a circuit has experienced an EPSS event (see tab "YTD EPSS Outages\_Circuit")
- Trends of scope and duration of outages on repeatedly impacted circuits (see tab "YTD EPSS Outage\_CESO" and Tab "YTD EPSS Outages\_CAIDI")

**Energy Safety Reporting:** PG&E has begun submitting a monthly report to the Office of Energy Infrastructure Safety (Energy Safety) beginning with the submission of our Revision Notice Response to RN-PG&E-22-12 on July 11 and monthly thereafter through 2022. The first monthly report was included as Attachment 2022-07-11\_PGE\_22-12\_RNR\_R2\_Atch05.<sup>2</sup> For both monthly submittals, PG&E is now including information requested by the CPUC's Safety Enforcement Division (SED) in addition to the information requested by Energy Safety.

The data requested by Energy Safety can be found in the locations detailed below.

	Description	Location in Attachment and Notes
a	Circuit Protection Zones (CPZ) where EPSS is deployed (with ID)	Tab "CPZs"
b	The number of times EPSS resulted in a trip on each CPZ	Tab "YTD 010122_113022" in Column D (CPZ)
c	The number of customers that experienced an outage for each event	Tab "YTD 010122_113022" in Column L (CESO)
d	The restoration time for each outage	Tab "YTD 010122_113022" in Column I (Restoration Time)
e	The cause of the fault for each outage	Tab "YTD 010122_113022" in Column E (Cause)
f	The number of ignitions that occurred on lines enabled with EPSS	Tab "YTD EPSS Ignition Data"
g	The number of ignitions that resulted in a wildfire greater in size than 10 acres	Tab "YTD EPSS Ignition Data" <sup>3</sup>
h	The amount of time it took for PG&E to identify (and suppress if applicable) the ignition	Tab "YTD EPSS Ignition Data" For each ignition associated with an EPSS zone in HFTD, PG&E will report the response time to the associated outage or call to respond by an external party and the time frame that additional de-energization actions were taken if the source of ignition was not already de-energized by equipment automatically de-energizing the line. Suppression of fires is the responsibility of the applicable Agency Having Jurisdiction.

<sup>1</sup> Note: the data will be undergoing quality review and could be subject to change, which will be reflected in subsequent monthly reports.

<sup>2</sup> Since submission to Energy Safety on July 11, 2022, certain tabs have been revised for clarity and their format may not align between the two versions of the report. Both submittals will have the same formatting in future months.

<sup>3</sup> PG&E interprets 7(g) to reference EPSS ignitions referenced in 7(f).

	Description	Location in Attachment and Notes
i	Any changes made to EPSS over the month and explanation of why those changes were made	In response to increased precipitation and persistent damp and cool conditions forecasted throughout our service area, on November 15 <sup>th</sup> , 2022, we implemented previously approved EPSS enablement criteria to enable EPSS when wildfire risk is present.  Current operating criteria for Distribution will enable EPSS in R3 Fire Potential Index (FPI) as well as in R2 conditions with Wind Speed (WS) $\geq 22$ mph, Relative Humidity (RH) $< 25\%$ and 10-hour Dead Fuel Moisture (DFM) $< 9\%$ or in R1 conditions and WS $\geq 25$ mph, RH $< 20\%$ and DFM $< 9\%$ .
j	Estimated ignition reductions resulting from EPSS including methodology for arriving at this estimate	The CPUC-reportable ignition reduction as a result of EPSS in 2022 through December 1 <sup>st</sup> , 2022, is 65%.  To determine EPSS ignition reductions, PG&E calculates ignition reduction from EPSS based on the following: CPUC Reportable Facility Ignitions (RFI) in High Fire Threat Districts (HFTD) on primary distribution conductor on an EPSS enabled zone as compared to the annual average of ignitions during the 2018-20 time period weather-normalized to when EPSS would have been enabled.

- **Number of well water customers impacted:**

We understand the Commission seeks insight as to the impact EPSS outages have on customers who rely on electricity to power a residential water well and thus, supply their homes or businesses with potable water. PG&E shares the Commission’s interest in understanding which homes and businesses rely on well water; however, this data is not readily available nor housed within PG&E’s customer databases, with the exception of customers who have applied for generator rebates based on the High Fire-Threat District (HFTD)/well water eligibility requirement. For reports submitted after February 15, 2022, the number of customers who received a generator rebate by documenting their reliance on well water are now included.

- **Efforts undertaken to clear lines and restore power within 60 minutes:** We would like to clarify that PG&E had targeted responding to, as opposed to restoring, outages in HFTDs in July 2021 within 60 minutes.

In 2022, PG&E further aligned our 60-minute outage response procedure with our risk informed EPSS enablement criteria to identify and mitigate public safety hazards potentially associated with the outage during periods of elevated wildfire risk and to support for quicker notification and more efficient resource allocation from public agencies (e.g., local police and fire, CAL FIRE).

Accordingly, our Electric Dispatch team in 2022 has implemented the following operational enhancements:

- Identified, trained, and equipped workgroups in addition to our Electric Troublemakers to assist in timely response to outages including our Power Generation employees, Safety and Infrastructure Protection Team (SIPT) crews and Field Communication technicians.
- Leveraging our Regional model, began tracking, reporting, and process improvement activities by our local teams to improve outage performance

Please note that the monthly data in this report are current as of the time of submittal but are subject to change based on the discovery of new information or further analysis.